Claim Amendments

Please amend claims 1, 17, and 20 as follows:

Listing of Claims

- 1. (currently amended) A primer tank for generating a primer vapor for treating a substrate with reduced primer droplet formation comprising:
- a tank body for containing a liquid primer to form a[[n]] planar exposed surface of said liquid primer, said exposed surface comprising a liquid vapor interface; and,
- a nozzle assembly comprising a nozzle plate, said nozzle plate comprising a plurality of openings, said plurality of openings disposed above said exposed surface and arranged for directing a plurality of gas streams onto said exposed surface to form said primer vapor in a vapor collection space above said liquid vapor interface.
- 2. (previously presented) The primer tank of claim 1 wherein said nozzle assembly further comprises:
- a gas inlet pipe for receiving a primary gas stream and said nozzle plate provided in downstream fluid communication with said gas inlet pipe;

wherein said nozzle plate comprises said plurality of openings for dividing said primary stream into said plurality of gas streams.

- 3. (original) The primer tank of claim 1 further comprising a level sensor provided in said tank body for sensing a level of the liquid primer in said tank body.
- 4. cancelled
- 5. (previously presented) The primer tank of claim 1 further comprising a vapor outlet for distributing the primer vapor from said vapor collection space to a downstream process.
- 6. cancelled
- 7. cancelled
- 8. cancelled
- 9. (currently amended) A primer tank for generating a primer vapor for treating a substrate, comprising:

a tank body for containing a liquid primer to form a[[n]] planar exposed surface of said liquid primer; and,

a nozzle assembly provided in said tank body, said nozzle assembly having a gas inlet pipe for receiving a primary gas stream; a housing having a housing interior provided in fluid communication with said gas inlet pipe; and a nozzle plate in downstream fluid communication with said housing, said nozzle plate having plurality of openings for receiving the primary gas stream and ejecting a plurality of secondary gas streams onto said exposed surface of said liquid primer to create a primer vapor in a vapor collection space above said exposed surface.

- 10. (original) The primer tank of claim 9 further comprising a level sensor provided in said tank body for sensing a level of the liquid primer in said tank body.
- 11. (original) The primer tank of claim 9 further comprising a vapor outlet tube provided in fluid communication with said tank body for distributing the primer vapor from said tank body.
- 12. cancelled

- 13. (previously presented) The primer tank of claim 9 wherein said plurality of openings are arranged in a plurality of radially-extending rows on a plate surface of said nozzle plate, said plate surface arranged above said exposed surface.
- 14. cancelled
- 15. cancelled.
- 16. cancelled.
- 17. (currently amended) A method of generating a primer vapor from a liquid primer for treating a substrate to reduce primer vapor droplet formation comprising the steps of:

providing a primer tank having a tank body;

providing the liquid primer in said tank body to form a[[n]]

planar exposed surface of said liquid primer, said exposed

surface comprising a liquid vapor interface;

directing an inert gas comprising a plurality of gas streams formed from a nozzle plate comprising a plurality of openings

onto said exposed surface to form a vapor above said liquid vapor interface, said vapor comprising said liquid primer and said inert gas; and,

transferring said vapor to a downstream process.

- 18, (original) The method of claim 17 wherein said liquid primer comprises hexamethyldisilazone.
- 19. (previously presented) The method of claim 17 wherein said plurality of gas streams are directed onto said exposed surface at subatmospheric pressures.
- 20. (currently amended) The method of claim 17 wherein the step of directing comprises:

providing a primary gas stream;

dividing said primary gas stream into said plurality of gas streams according to said plurality of openings, said plurality of openings disposed above said exposed surface; and,

directing said plurality of gas streams against said exposed

surface and collecting said vapor in a vapor collection space disposed above the vapor liquid interface.

- 21. (previously presented) The method of claim 20, wherein said plurality of openings are arranged in a plurality of radially-extending rows on said nozzle plate surface.
- 22. (previously presented) The method of claim 17, wherein said inert gas comprises nitrogen.
- 23. (previously presented) The method of claim 17, wherein said downstream process comprises treating a semiconductor process wafer with the primer vapor, said downstream process at a relatively lower pressure than the vapor collection space.
- 24. (previously presented) The primer tank of claim 5, wherein said downstream process is maintained at a lower pressure relative to said vapor collection space.
- 25. (previously presented) The primer tank of claim 1 wherein said plurality of openings are arranged in a plurality of radially-extending rows on said nozzle plate surface.